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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 September 10, 2007	Attorney Docket No. 056291-5298	Application No. 10/588,334
	Applicants: Craig Johnstone et al.	
	Filing Date: August 3, 2006	Group Art Unit: 1614

U.S. PATENT DOCUMENTS

Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date
A01	US 2,750,393	June 12, 1956	Elpern			
A02	US 2,967,194	January 3, 1961	Murray Hauptchein			
A03	US 3,950,351	April 13, 1976	Rossignol et al.			
A04	US 4,009,174	February 22, 1977	Cluzan et al.			
A05	US 4,105,785	August 8, 1978	Mauvernay et al.			
A06	US 4,146,631	March 27, 1979	Ford et al.			
A07	US 4,434,170	February 28, 1984	Dostert et al			
A08	US 4,474,792	October 2, 1984	Erickson			
A09	US 4,634,783	January 6, 1987	Fujii et al.			
A10	US 5,258,407	November 2, 1993	Washburn et al.			
A11	US 5,273,986	December 28, 1993	Holland et al.			
A12	US 5,399,702	March 21, 1995	Holland et al.			
A13	US 5,466,715	November 14, 1995	Washburn et al.			
A14	US 5,510,478	April 23, 1996	Sabb			
A15	US 5,661,153	August 26, 1997	Isobe et al.			
A16	US 5,672,750	September 30, 1997	Perry, Robert James			
A17	US 5,712,270	January 27, 1998	Sabb			
A18	US 5,849,735	December 15, 1998	Albright et al.			
A19	US 6,110,945	August 29, 2000	Head et al.			
A20	US 6,197,798	March 6, 2001	Fink et al.			
A21	US 6,200,995	March 13, 2001	De la Brouse-Elwood et al.			
A22	US 6,207,693	March 27, 2001	Setoi et al.			
A23	US 6,214,878	April 10, 2001	Bernardon , et al.			
A24	US 6,316,482	November 13, 2001	Setoi et al.			
A25	US 6,320,050	November 20, 2001	Bizzarro et al.			
A26	US 6,369,229	April 9, 2002	Head et al.			
A27	US 6,376,515	April 23, 2002	Zhu et al.			
A28	US 6,388,071	May 14, 2002	Mahaney			
A29	US 6,448,399	September 10, 2002	Corbett et al.			
A30	US 6,486,349	November 26, 2002	Flitter et al.			
A31	US 6,528,543	March 4, 2003	Bizzarro et al.			
A32	US 6,545,155	April 8, 2003	Corbett et al.			
A33	US 6,610,846	August 26, 2003	Bizzarro et al.			
A34	US 6,613,942	September 2, 2003	Ling et al.			
A35	US 2001027200	October 4, 2001	De la Brouse-Elwood et al.			
A36	US 20020002183	January 3, 2002	Zhu et al.			

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	Document No.	Date	Country	Class	Sub-Class	Translation

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

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September 10, 2007Attorney Docket No.
056291-5298Application No.
10/588,334

Applicants: Craig Johnstone et al.

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Group Art Unit: 1614

U.S. PATENT DOCUMENTS

Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date
A37	US 20020095044	July 8, 2002	Jagtap et al.			
A38	US 20030162690	August 28, 2003	Zhu et al.			
A39	US 20040014968	January 22, 2004	Bizzarro et al.			
A40	US 20050080106	April 14, 2005	Boyd et al.			

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	Document No.	Date	Country	Class	Sub-Class	Translation
B01	CS 173097	June 15, 1978	Czechoslovakia			Yes
B02	EP 0219436	December 22, 1993	Europe			
B03	EP 0316704	May 24, 1989	Europe			
B04	EP 0353452	February 7, 1990	Europe			Yes
B05	EP 0619116	October 12, 1994	Europe			
B06	EP 0620216	January 8, 2003	Europe			
B07	EP 1048659	November 2, 2000	Europe			
B08	EP 1336607	August 20, 2003	Europe			
B09	EP 1357116	October 29, 2003	Europe			
B10	EP 1400540	November 2, 2000	Europe			
B11	EP 1496052	January 12, 2005	Europe			
B12	EP 1600442	November 30, 2005	Europe			
B13	FR 1526074	May 24, 1968	France			Yes
B14	FR 2088019	January 7, 1972	France			
B15	GB 1561350	February 20, 1980	United Kingdom			
B16	GB 1588242	April 23, 1981	United Kingdom			
B17	GB 2216517	October 11, 1989	United Kingdom			
B18	GB 2331748	June 2, 1999	United Kingdom			
B19	GB 2385328	August 20, 2003	United Kingdom			
B20	JP 04300832	October 23, 1992	Japan			Yes
B21	JP 04300874	October 23, 1992	Japan			Yes
B22	JP 06027025	February 4, 1994	Japan			
B23	JP 08143565	June 4, 1996	Japan			Yes
B24	JP 08173525	July 9, 1996	Japan			Yes
B25	JP 08301760	November 19, 1996	Japan			Yes
B26	JP 09040557	February 10, 1997	Japan			Abstract
B27	JP 09202786	August 5, 1997	Japan			Yes
B28	JP 10101671	April 21, 1998	Japan			Yes
B29	JP 10101672	April 21, 1998	Japan			Yes
B30	JP 10212271	August 11, 1998	Japan			Abstract
B31	JP 11029480	February 2, 1999	Japan			Yes
B32	JP 11171848	June 29, 1999	Japan			Yes
B33	JP 11222435	August 17, 1999	Japan			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Sub-Class	Translation
B34		JP 11292879	October 26, 1999	Japan			Yes
B35		JP 50105559	August 20, 1975	Japan			Yes
B36		JP 57021320	February 4, 1982	Japan			Yes
B37		JP 57075962	May 12, 1982	Japan			Abstract
B38		JP 58069812	April 26, 1983	Japan			Yes
B39		JP 61205937	September 12, 1986	Japan			Yes
B40		JP 62158252	July 14, 1987	Japan			Yes
B41		JP 2000086657	March 28, 2000	Japan			Abstract
B42		WO 91/09017	June 27, 1991	WIPO			
B43		WO 94/04525	March 3, 2004	WIPO			
B44		WO 95/20578	August 3, 1995	WIPO			
B45		WO 95/35298	December 28, 1995	WIPO			Yes
B46		WO 96/11902	April 25, 1996	WIPO			
B47		WO 96/19455	June 27, 1996	WIPO			
B48		WO 96/22282	July 25, 1996	WIPO			
B49		WO 96/22293	July 25, 1996	WIPO			
B50		WO 96/22294	July 25, 1996	WIPO			
B51		WO 96/22295	July 25, 1996	WIPO			
B52		WO 96/36619	November 21, 1996	WIPO			Yes
B53		WO 96/41795	December 27, 1996	WIPO			
B54		WO 97/24355	July 10, 1997	WIPO			
B55		WO 97/36480	March 18, 1997	WIPO			
B56		WO 97/46560	December 11, 1997	WIPO			Yes
B57		WO 97/49707	December 31, 1997	WIPO			
B58		WO 97/49708	December 31, 1997	WIPO			
B59		WO 98/24771	June 11, 1998	WIPO			
B60		WO 98/34632	August 13, 1998	WIPO			
B61		WO 98/45242	October 15, 1998	WIPO			Yes
B62		WO 99/00359	January 7, 1999	WIPO			
B63		WO 99/00372	January 7, 1999	WIPO			
B64		WO 99/20611	April 29, 1999	WIPO			
B65		WO 99/24415	May 20, 1999	WIPO			Yes
B66		WO 99/26944	June 3, 1999	WIPO			
B67		WO 99/32477	July 1, 1999	WIPO			
B68		WO 99/38845	August 5, 1999	WIPO			
B69		WO 99/54301	October 28, 1999	WIPO			
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		Document No.	Date	Country	Class	Sub-Class	Translation
B70		WO 99/62901	December 9, 1999	WIPO			
B71		WO 00/02850	January 20, 2000	WIPO			Yes
B72		WO 00/26202	May 11, 2000	WIPO			
B73		WO 00/39118	July 6, 2000	WIPO			
B74		WO 00/58293	October 5, 2000	WIPO			
B75		WO 01/12621	February 22, 2001	WIPO			
B76		WO 01/16097	March 8, 2001	WIPO			
B77		WO 01/19788	March 22, 2001	WIPO			
B78		WO 01/20327	March 22, 2001	WIPO			
B79		WO 01/26652	April 19, 2001	WIPO			
B80		WO 01/32639	May 10, 2001	WIPO			
B81		WO 01/44216	June 21, 2001	WIPO			
B82		WO 01/64642	September 7, 2001	WIPO			
B83		WO 01/64643	September 7, 2001	WIPO			
B84		WO 01/74791	October 11, 2001	WIPO			Yes
B85		WO 01/83465	November 8, 2001	WIPO			
B86		WO 01/83478	November 8, 2001	WIPO			
B87		WO 01/85706	November 15, 2001	WIPO			
B88		WO 01/85707	November 15, 2001	WIPO			
B89		WO 02/00633	January 3, 2002	WIPO			
B90		WO 02/064545	August 22, 2002	WIPO			
B91		WO 02/08209	January 31, 2002	WIPO			
B92		WO 02/14312	February 21, 2002	WIPO			
B93		WO 02/24682	March 28, 2002	WIPO			
B94		WO 02/26718	April 4, 2002	WIPO			
B95		WO 02/26731	April 4, 2002	WIPO			
B96		WO 02/28835	April 11, 2002	WIPO			
B97		WO 02/42270	May 30, 2002	WIPO			
B98		WO 02/46173	June 13, 2002	WIPO			
B99		WO 02/48106	June 20, 2002	WIPO			
B100		WO 02/79145	October 10, 2002	WIPO			
B101		WO 03/000267	January 3, 2003	WIPO			
B102		WO 03/015518	February 27, 2003	WIPO			
B103		WO 03/022856	March 20, 2003	WIPO			
B104		WO 03/024222	March 27, 2003	WIPO			
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	Document No.	Date	Country	Class	Sub-Class	Translation
B105	WO 03/026652	April 3, 2003	WIPO			
B106	WO 03/028641	April 10, 2003	WIPO			
B107	WO 03/047626	June 12, 2003	WIPO			
B108	WO 03/048152	June 12, 2003	WIPO			
B109	WO 03/055482	July 10, 2003	WIPO			
B110	WO 03/066613	August 14, 2003	WIPO			
B111	WO 03/080585	October 2, 2003	WIPO			Yes
B112	WO 03/082838	October 9, 2003	WIPO			Yes
B113	WO 03/095438	November 20, 2004	WIPO			
B114	WO 03/097824	November 27, 2004	WIPO			Yes
B115	WO 2004/002481	January 1, 2004	WIPO			
B116	WO 2004/031179	April 15, 2004	WIPO			
B117	WO 2004/045614	June 3, 2004	WIPO			
B118	WO 2004/046139	June 3, 2004	WIPO			
B119	WO 2004/050645	June 17, 2004	WIPO			
B120	WO 2004/052869	June 24, 2004	WIPO			
B121	WO 2004/063179	July 29, 2004	WIPO			
B122	WO 2004/063194	July 29, 2004	WIPO			
B123	WO 2004/072031	August 26, 2004	WIPO			
B124	WO 2004/072066	August 26, 2004	WIPO			
B125	WO 2004/081001	September 23, 2004	WIPO			Yes
B126	WO 2004/085406	October 7, 2004	WIPO			
B127	WO 2004/110375	December 23, 2004	WIPO			
B128	WO 2005/044801	May 19, 2005	WIPO			
B129	WO 2005/049019	June 2, 2005	WIPO			
B130	WO 2005/054200	June 16, 2005	WIPO			
B131	WO 2005/054233	June 16, 2005	WIPO			
B132	WO 2005/056530	June 23, 2005	WIPO			
B133	WO 2005/063738	July 14, 2005	WIPO			Yes
B134	WO 2005/066145	July 21, 2005	WIPO			
B135	WO 2005/080359	September 1, 2005	WIPO			
B136	WO 2005/080360	September 1, 2005	WIPO			
B137	WO 2005/090332	September 29, 2005	WIPO			Yes
B138	WO 2005/095417	October 13, 2005	WIPO			
B139	WO 2005/095418	October 13, 2005	WIPO			
B140	WO 2005/103021	November 3, 2005	WIPO			
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub-Class	Translation
B141	WO 2005/121110	December 22, 2005	WIPO			
B142	WO 2005/123132	December 29, 2005	WIPO			
B143	WO 2006/016174	February 16, 2006	WIPO			
B144	WO 2006/016178	February 16, 2006	WIPO			
B145	WO 2006/016194	February 16, 2006	WIPO			
B146	WO 2006/040527	April 20, 2006	WIPO			
B147	WO 2006/040528	April 20, 2006	WIPO			
B148	WO 2006/040529	April 20, 2006	WIPO			
B149	WO 2006/066613	June 29, 2006	WIPO			

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C01	Alvarez et al. "Evidence that glucokinase regulatory protein is expressed and interacts with glucokinase in rat brain" J. Neurochem. 80(1):45-53 (2002)
C02	Alvarez et al. "Expression of the glucagon-like peptide-1 receptor gene in rat brain" J. Neurochem. 66(3):920-927 (1996)
C03	Anderson et al "Pyridopyrimidines. 6. Nucleophilic substitutions in the Pyrido[2,3-d]pyrimidine series" J. Org. Chem. 42(6):993-996 (1977)
C04	Ando et al. "Fluoride salts on alumina as reagents for alkylation of phenols and alcohols" Bull. Chem. Soc. Jpn., 55:2504-2507 (1982)
C05	Atwell, G. J. et al. "Potential antitumor agents. VI. Bisquaternary salts" J. Med. Chem. 11(2):295-300 (1968)
C06	Baker, R. et al. "Structure and synthesis of Pallescansin E utilizing a modified Wadsworth-Emmons reaction" J. Chem. Soc., Perkin Trans. 1, 12, pp 3087-3091 (1981)
C07	Baker, R. et al. "Synthesis of Pallescansin-E: use of crown ether in the Wadsworth procedure for olefin formation" Tetrahedron Lett. 22, pp 161-162 (1981)
C08	Balant et al. "Metabolic considerations, etc." Burger's Medicinal Chemistry, 5th edition, 1, Wolff ed. NY: John Wiley & Sons, p 949-982 (1995)
C09	Beilstein Registry Number 6511458 (18 Apr 1994) ; [XP002272206]
C10	Bell et al. "Glucokinase mutations, insulin secretion, and diabetes mellitus" Annu. Rev. Physiol. 58:171-186 (1996)
C11	Beller et al. "Photochemical synthesis of benzo[f]quinolines" J Org Chem. 42:3514-3518 (1977)
C12	Berl et al. "Induced fit selection of a barbiturate receptor from a dynamic configurational/conformational library" European J. Org. Chem. (11):3089-3094 (1999)
C13	Berl et al. "Template-induced and molecular recognition directed hierarchical generation of supramolecular assemblies from molecular strands" Chem. Eur. J., 6(11): 1938-1946 (2000)
C14	Bonina, F. et al. "Synthesis and pharmacologic activity of 2-arylethenylthiazol-4-acetic and 4-carboxylic acids" Farmaco, 40(11), p 875-884 (1985)
C15	Boucherle et al. "Recherches dans la serie des cetonnes polyphenoliques IV. Thiazoles" Chimica Therapeutica., 3(5):360-363 (1968) (Translation enclosed)

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FOREIGN PATENT DOCUMENTS							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	C16	Bowden et al. "Structure-activity relations. Part 10. Metal-ion-complexation studies of a series of substituted benzamidotetrazoles" J. Chem. Research (Synopses) 11:304 (1991)					
	C17	Bowden et al. "Structure-activity relations. Part 13. Inhibitors of cyclic nucleotide phosphodiesterase and anaphylaxis. Inhibition by a series of substituted benzamidotetrazoles" J. Chem. Research (Synopses) 6:206 (1992)					
	C18	Brocklehurst et al. "Stimulation of Hepatocyte Glucose Metabolism by Novel Small Molecule Glucokinase Activators" Diabetes 53:535-541 (2004)					
	C19	Caro et al. "Liver glucokinase: decreased activity in patients with type II diabetes" Horm. Metab. Res., 27(1):19-22 (1995)					
	C20	Carroll et al. "The in vitro characterisation of a novel Glucokinase activator" Stress, Signalling and Control, Biochemical Society Meeting 679, University of Essex, UK (2-4 July 2003)					
	C21	Caulfield et al. "The first potent and selective inhibitors of the glycine transporter type 2" J. Med. Chem., 44(17): 2679-2682 (2001)					
	C22	Cavier et al. "Recherches sur les derives nitrés d'interet biologique. XVI. Relations entre structures et activites protozoocides, anthelminthiques et molluscicides dans la serie du benzamido-2 nitro-5 thiazole" European Journal of Medicinal Chemistry, Chimica Therapeutica, 13(6): 539-543 (1978) (Translation enclosed)					
	C23	Chemical Abstracts Service, Columbus, Ohio, US: CAS Registry No. 438028-05-8 (15 Nov 2001); CAS Registry No. 438024-90-9 (15 Nov 2001), [XP002272448]					
	C24	Chemical Abstracts Service, Columbus, Ohio, US: CAS Registry No. 445284-93-5 (9 Jul 2002); CAS Registry No. 445250-52-2 (9 Jul 2002); CAS Registry No. 445030-98-8 (9 Jul 2002); CAS Registry No. 445017-74-3 (9 Jul 2002); CAS Registry No. 444935-78-8 (9 Jul 2002); CAS Registry No. 444923-81-3 (9 Jul 2002); CAS Registry No. 438222-80-1 (9 Jul 2002); CAS Registry No. 438221-01-3 (9 Jul 2002); CAS Registry No. 354550-59-7 (9 Jul 2002); CAS Registry No. 438537-80-5 (9 Jul 2002); CAS Registry No. 353770-14-6 (9 Jul 2002); CAS Registry No. 352690-95-0 (9 Jul 2002); CAS Registry No. 353478-21-4 (9 Jul 2002); CAS Registry No. 353477-20-0 (9 Jul 2002); CAS Registry No. 353474-36-9 (9 Jul 2002); CAS Registry No. 362473-72-1 (9 Jul 2002); CAS Registry No. 303140-37-6 (9 Jul 2002); [XP002272449]					
	C25	Chemical Abstracts Service, Columbus, Ohio, US: CAS Registry No. 354767-51-4 (05 Sep 2001)					
	C26	Chemical Abstracts Service, Columbus, Ohio, US: CAS Registry No. 354767-66-1 (05 Sep 2001)					
	C27	Christesen et al. "The second activating glucokinase mutation (A456V): Implications for glucose homeostasis and diabetes therapy" Diabetes, 51(4):1240-1246 (2002)					
	C28	Ciaceri, G. et al. "Analgesic, antipyretic and antiphlogistic effect of several new acids of the phenylethylene-thiazole series" Minerva Med., 63(42), p 2409-2413 (1972)					
	C29	Coburn et al. "Mesoionic purinone analogs. IV. Synthesis and in vitro antibacterial properties of mesoionic thiazolo(3,2-a)pyrimidin-5,7-diones and mesoionic 1,3,4-thiadizolo(3,2-a)pyrimidin-5,7-diones" J. Pharm. Sciences. 62(11):1785-1789 (1973)					
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
C30	Coghlan "Small molecule Glucokinase Activators (GKAs) as novel anti-diabetic agents" CIDEM seminar (May 2005)					
C31	Coghlan "Small molecule Glucokinase Activators (GKAs) as novel anti-diabetic agents" Society for Medicines Research Seminar (June 2004)					
C32	Corbett, "Track 3-mastering medicinal chemistry: applying organic chemistry to biological problems, success stories in medicinal chemistry" Molecular Medicine Tri-Conference, Moscone West Convention Center, San Francisco California, 3/26/05, 11:00-11:30, Glucokinase Activator: Discovery of Novel, Orally Active Glucose Lowering Agents, March 24-26, 2004					
C33	Cushman et al. "Synthesis and evaluation of new protein-tyrosine kinase inhibitors. Part 1. pyridine-containing stilbenes and amides" Bioorganic & Medicinal Chemistry Letters, 1(4):211-214 (1991)					
C34	DeFronzo et al. "The triumvirate: β -cell, muscle, liver. A collusion responsible for NIDDM" Diabetes 37:667-687 (1988)					
C35	DeJohn, et al., "Functionalization of Substituted 2(1H)- and 4(1H)-Pyridones. III. The Preparation of Substituted 6-Vinyl-1,2-dihydro-2-oxo-- and 1,4-Dihydro-4-oxo-3-pyridinecarboxylic Acids through the Chemistry of Pyridone Dianions", J. Heterocyclic Chem., 20(5), p 1295-1302 (1983)					
C36	De Paulis, T. et al. "Potential antipsychotic agents. 6. Synthesis and antidopaminergic properties of substituted N-(1-benzyl-4-piperidinyl)salicylamides and related compounds. QSAR based design of more active members" Eur. J. Med. Chem., 25: 507-517 (1990)					
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